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TITLE: EFFICIENT PRODUCTION OF USEFUL SUBSTANCE BY APOPTOSIS INHIBITION AND CELL

PUBN-DATE: June 24, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

SUZUKI, EIJI

YUDA, KAZUHIRO

AKIYAMA, KATSUHIKO

GOTO, TAKESHI

SATO, HIDEJI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

HISAMITSU PHARMACEUT CO INC

APPL-NO: JP08231124

APPL-DATE: August 30, 1996

INT-CL (IPC): C12 N 15/09; C12 N 5/10; C12 P 21/02; C12 P 21/08; A61 K 39/00; A61 K 39/395

ABSTRACT:

PROBLEM TO BE SOLVED: To extremely improve productivity of a useful substance such as an antibody, a vector for gene therapy, cytokinin, an antigen for vaccine, etc., by transducing an apoptosis inhibitory gene to an animal cell capable of producing a useful substance.

SOLUTION: An apoptosis inhibitory gene such as bcl-2, BAG-1, Bcl-XL, Ad.Elb or Crma is transduced to bcl-2 transduced COS-1 cell (FERM P-15,808) as an animal cell capable of producing a useful substance by an electroporation method. A selective pressure is applied to the system to select a gene-transduced cell, which is cultured in a medium to mass produce a useful substance such as various antibodies produced by a hybridoma, a virus vector for treating a gene, various recombinant protein such as a cytokine, e.g. interferon, an antigen substance for a vaccine, etc., in improved productivity.

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